DIRECTIVE





5.2 If

5.3 Each

5.4 For + While

5.5 Mixin' In



Responsive Refresher

Straight from Journey Into Mobile:

```
target / context
```

• If the target size of our sidebar is 350px and the context of its parent is 1000px:

```
350px / 1000px = 0.35
0.35 * 100 = 35%
```



application.scss

```
@function fluidize() {
   @return 35%;
}
always returns 35%
.sidebar {
```

```
application.css
```

```
.sidebar {
 width: 35%;
```



width: fluidize();



```
application.css
```

```
@function fluidize($target, $context) {
    @return ($target / $context) * 100%;
}
.sidebar {
    width: fluidize(350px, 1000px);
}
```

```
.sidebar {
 width: 35%;
```



- More on responsive design + Sass later, including a built-in fluidize replacement
- Function arguments = same rules as mixin arguments



Using @if, we can conditionally output code:

```
application.scss
```

```
$theme: dark;
header {
  @if $theme == dark {
    background: #000;
```

```
header {
  background: #000;
```



Comparisons

- equal to
- != not equal to
- o > greater than *
- >= greater than or equal to *
- less than *
- = less than or equal to *



^{*} numbers only

```
$theme: light;
header {
  @if $theme == dark {
    background: #000;
```



@else provides a fallback if everything evaluates false or null:

```
application.scss
```

```
$theme: light;
header {
  @if $theme == dark {
    background: #000;
    @else {
    background: #fff;
```

```
header {
  background: #fff;
```



@else if allows for multiple comparisons:

application.scss

```
$theme: pink;
header {
  @if $theme == dark {
    background: #000;
    @else if $theme == pink {
    background: pink;
  } @else {
    background: #fff;
```

```
header {
  background: pink;
```





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Interating Over a List

• The @each directive allows us to loop through each list item:

```
$authors: nick aimee dan drew;
```



```
$authors: nick aimee dan drew;

@each $author in $authors {
    .author-#{$author} {
        background: url(author-
#{$author}.jpg);
    }
}
```

```
.author-nick {
 background: url(author-nick.jpg);
.author-aimee {
 background: url(author-aimee.jpg);
.author-dan {
 background: url(author-dan.jpg);
.author-drew {
 background: url(author-drew.jpg);
```

```
application.scss
```

```
.item {
 position: absolute;
 right: 0;
  @for $i from 1 through 3 {
    &.item-#{$i} {
     top: $i * 30px;
                  1: 1
                  3: 3
```

```
.item {
 position: absolute;
 right: 0;
.item.item-1 {
 top: 30px;
.item.item-2 {
 top: 60px;
.item.item-3 {
 top: 90px;
```



- @for and @while = @each with more control
- @while requires manually updating the index



```
$i: 1;
.item {
  position: absolute;
 right: 0;
  @while $i < 4 {</pre>
    &.item-#{$i} {
      top: $i * 30px;
    $i: $i + 1;
                          1: 1
                          2: 2
                          3: 3
```

```
.item {
 position: absolute;
 right: 0;
.item.item-1 {
 top: 30px;
.item.item-2 {
 top: 60px;
.item.item-3 {
 top: 90px;
```





```
$i: 2;
.item {
  position: absolute;
 right: 0;
  @while $i <= 6 {</pre>
    &.item-#{$i} {
      top: $i * 30px;
    $i: $i + 2;
                          1: 2
                          2: 4
```

```
.item {
 position: absolute;
 right: 0;
.item.item-2 {
 top: 60px;
.item.item-4 {
 top: 120px;
.item.item-6 {
 top: 180px;
```









- 5.3 Each
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Mixins

 Similar sets of properties used multiple times with small variations

Extend

Sets of properties that match *exactly*

Functions

Commonly-used operations to determine values



_buttons.scss

```
@mixin button($color, $rounded: true) {
 color: $color;
  @if $rounded == true {
   border-radius: 4px;
.btn-a {
  @include button(#000, false);
.btn-b {
  @include button(#333);
```

```
.btn-a {
  color: black;
}
.btn-b {
  color: #333333;
  border-radius: 4px;
}
```



_buttons.scss

```
application.css
```

```
@mixin button($color, $rounded: false) {
 color: $color;
  @if $rounded {
   border-radius: $rounded;
                           used if $rounded
                          isn't false or null
.btn-a {
  @include button(#000);
.btn-b {
  @include button(#333, 4px);
```

```
.btn-a {
   color: black;
}
.btn-b {
   color: #333333;
   border-radius: 4px;
}
```





CODE SCHOOL

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